

Figure 1

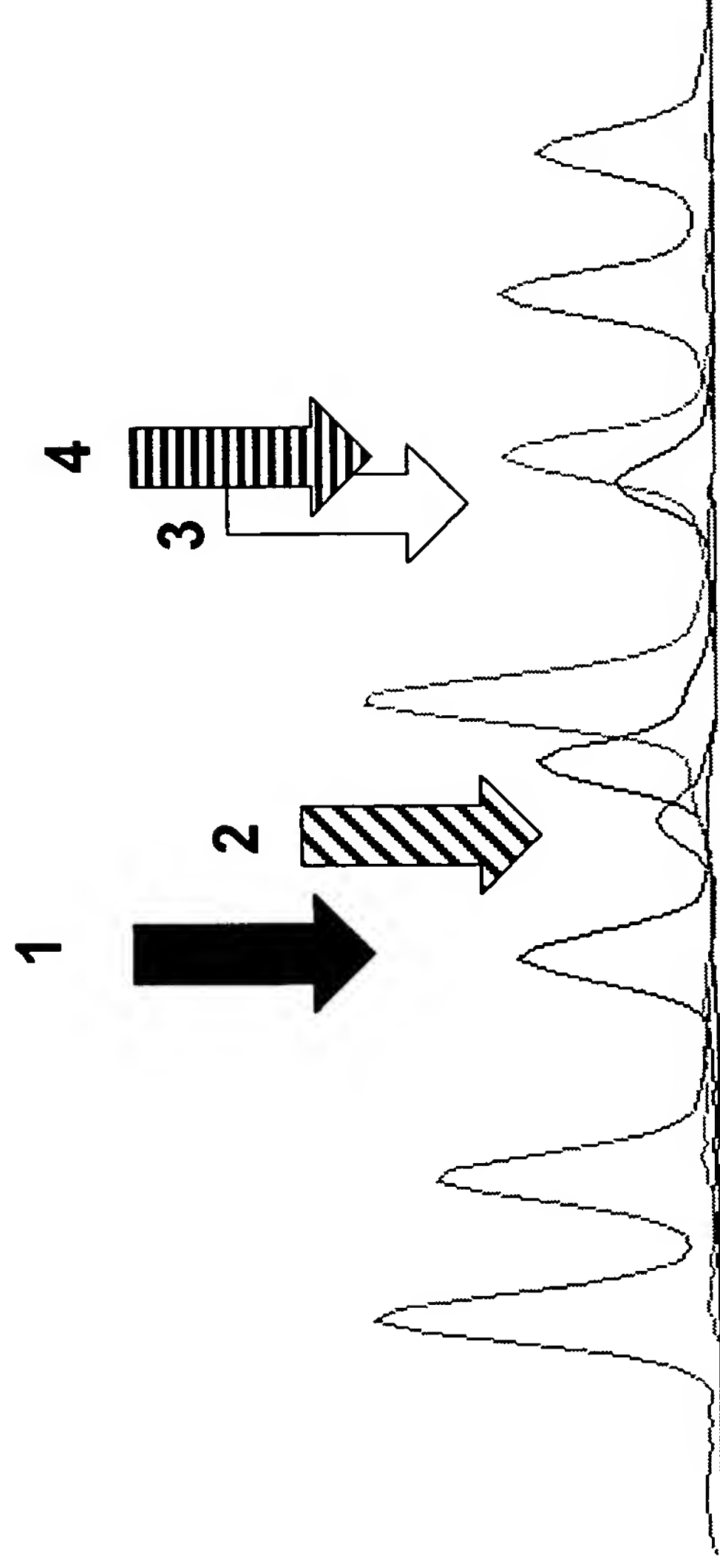


Figure 2

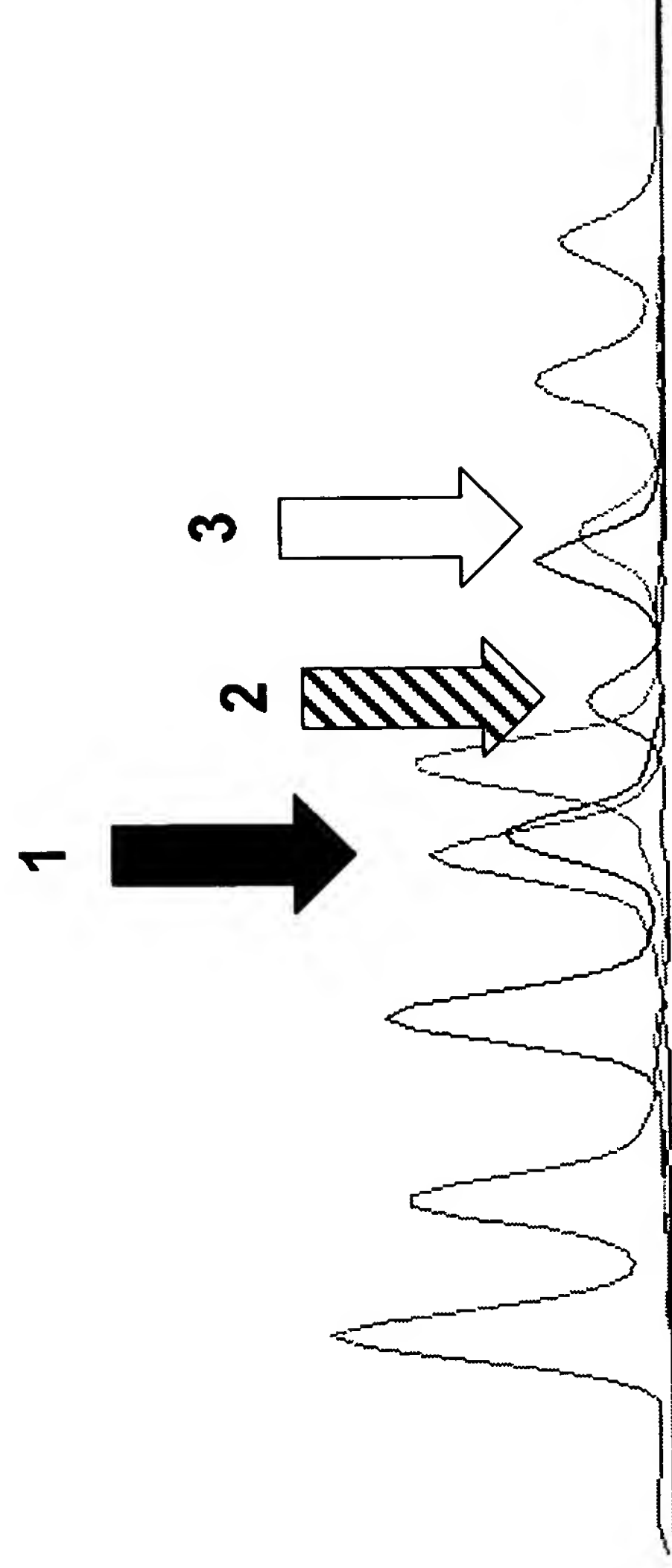


Figure 3

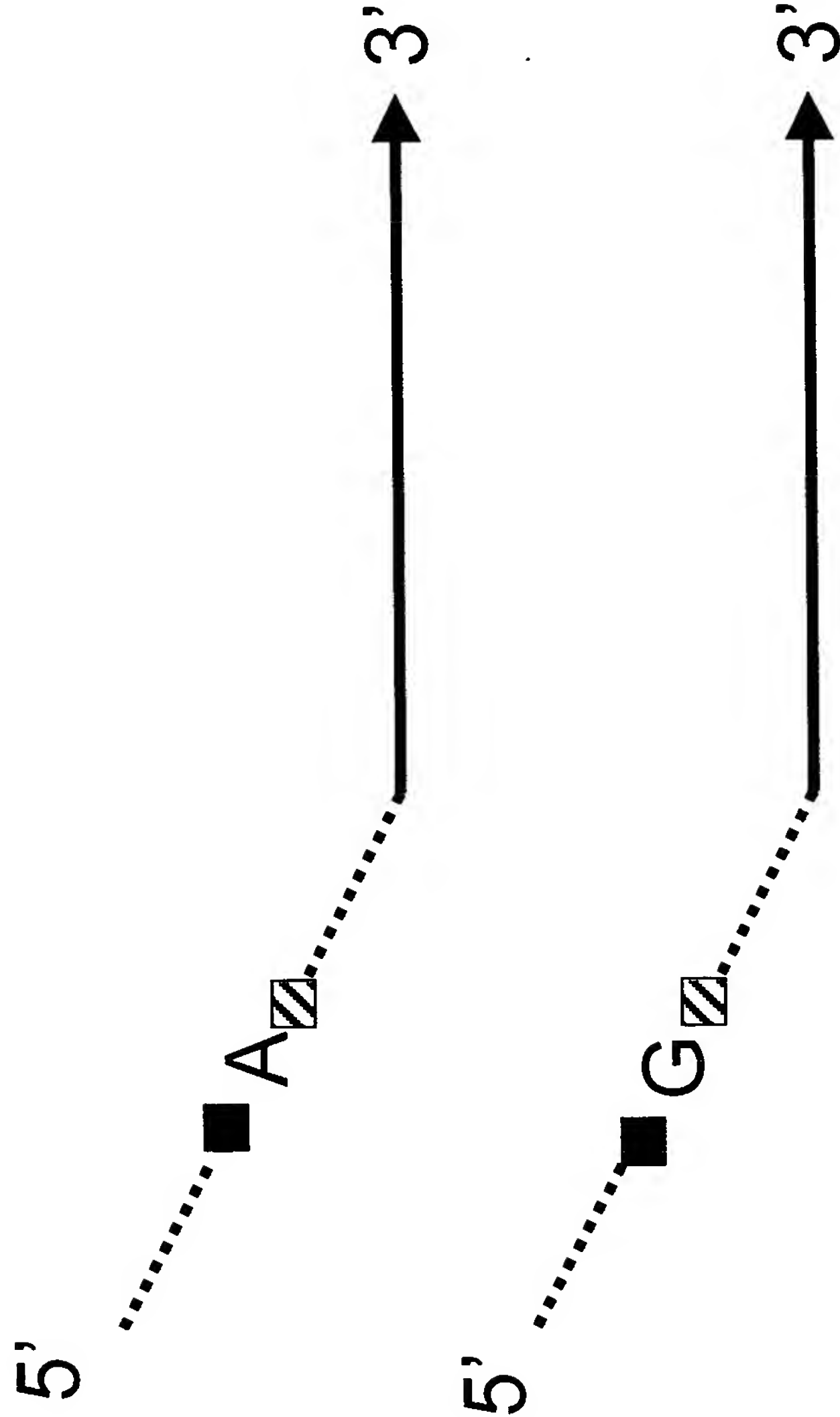


Figure 4

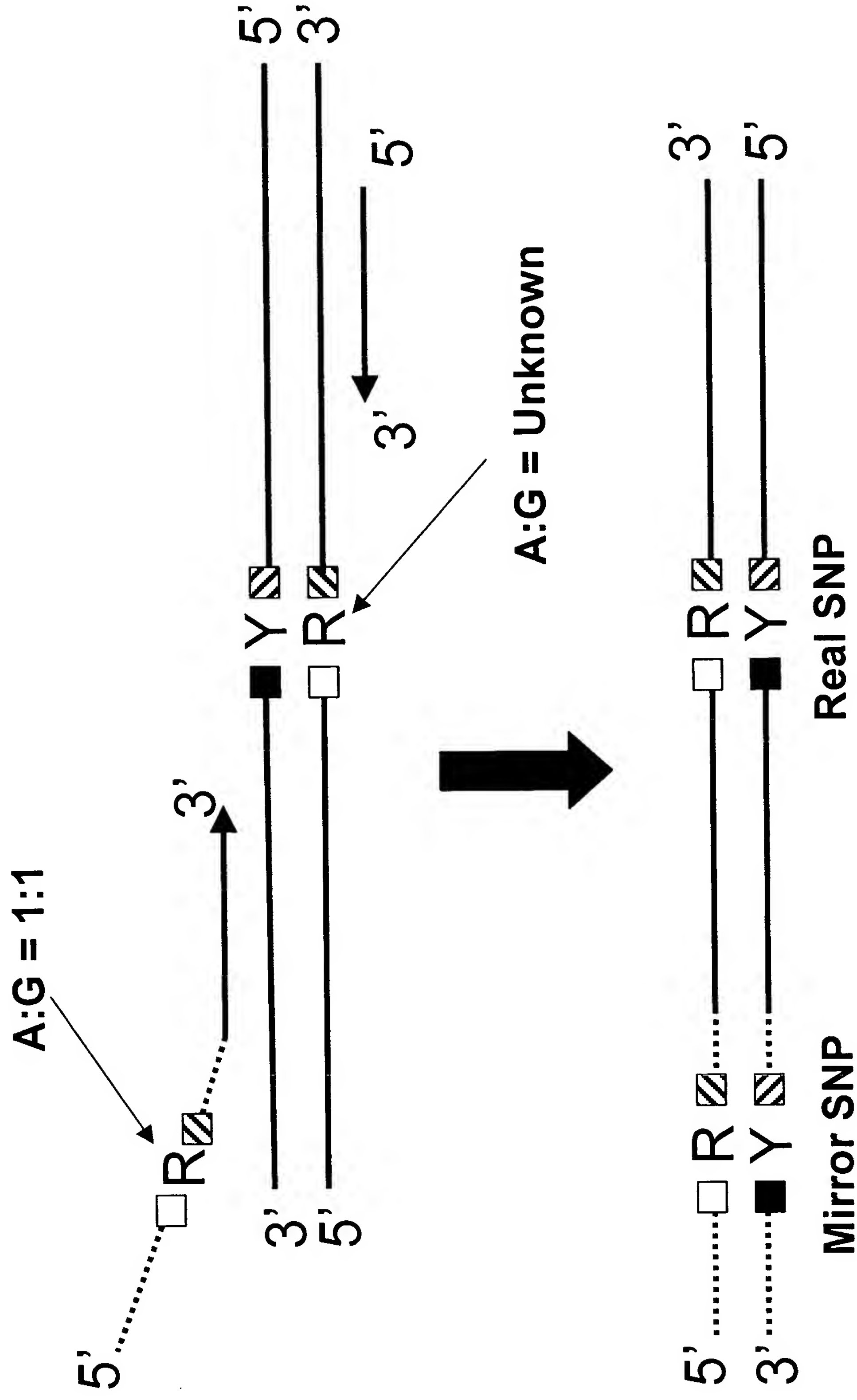
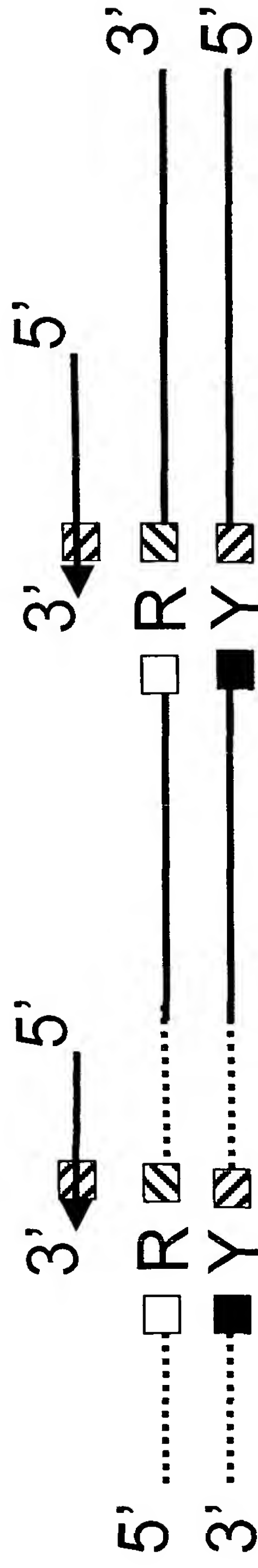


Figure 5

C/T SBE Reaction Primers



A/G SBE Reaction Primers

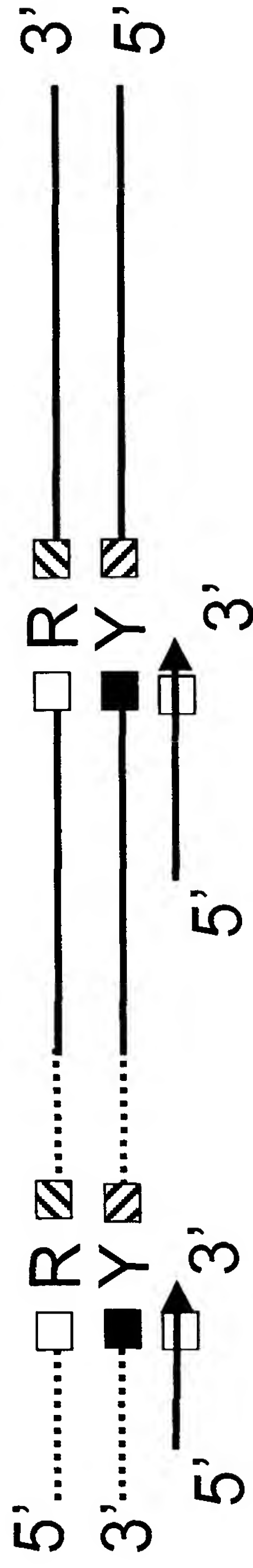


Figure 6

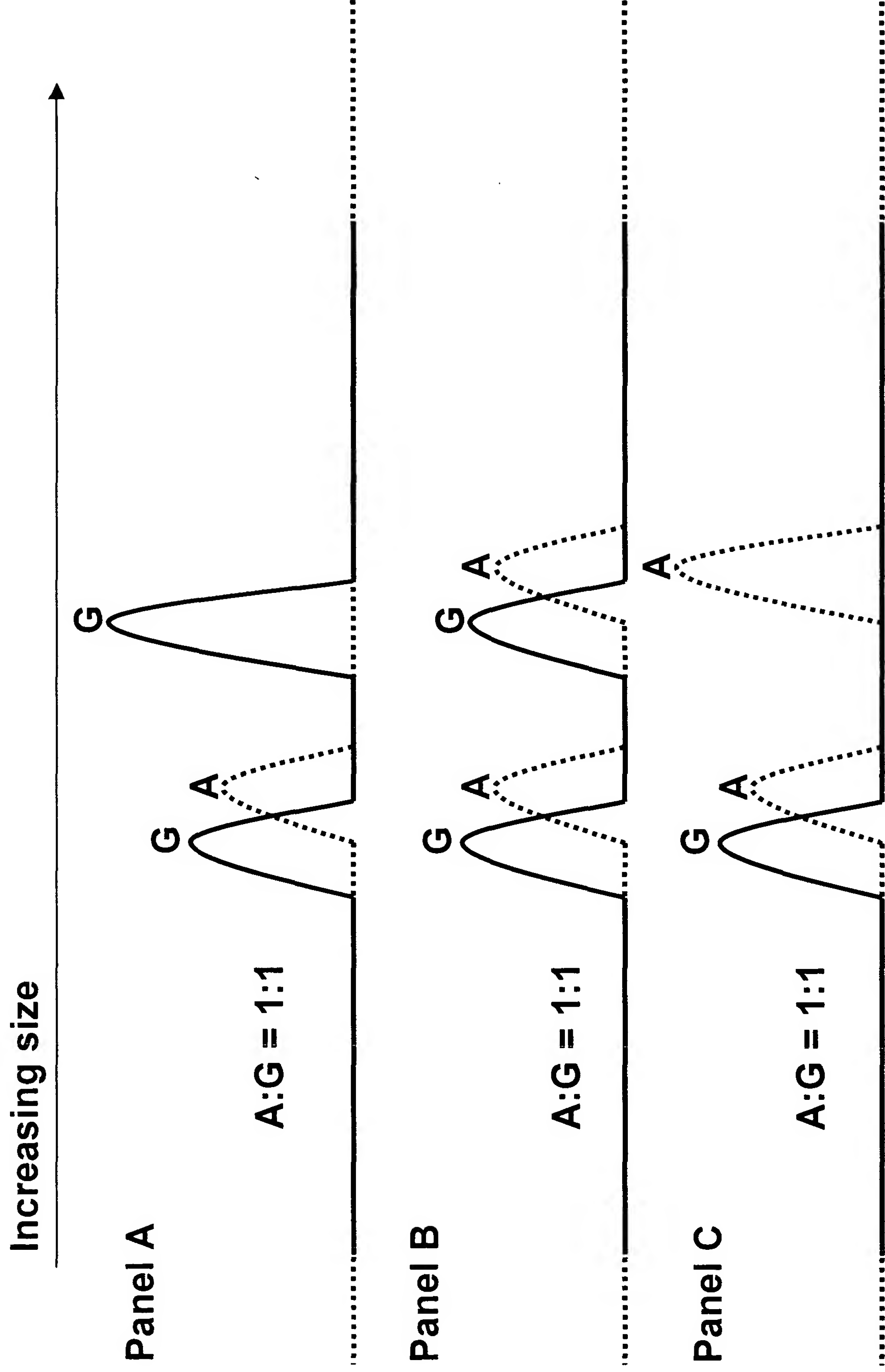


Figure 7

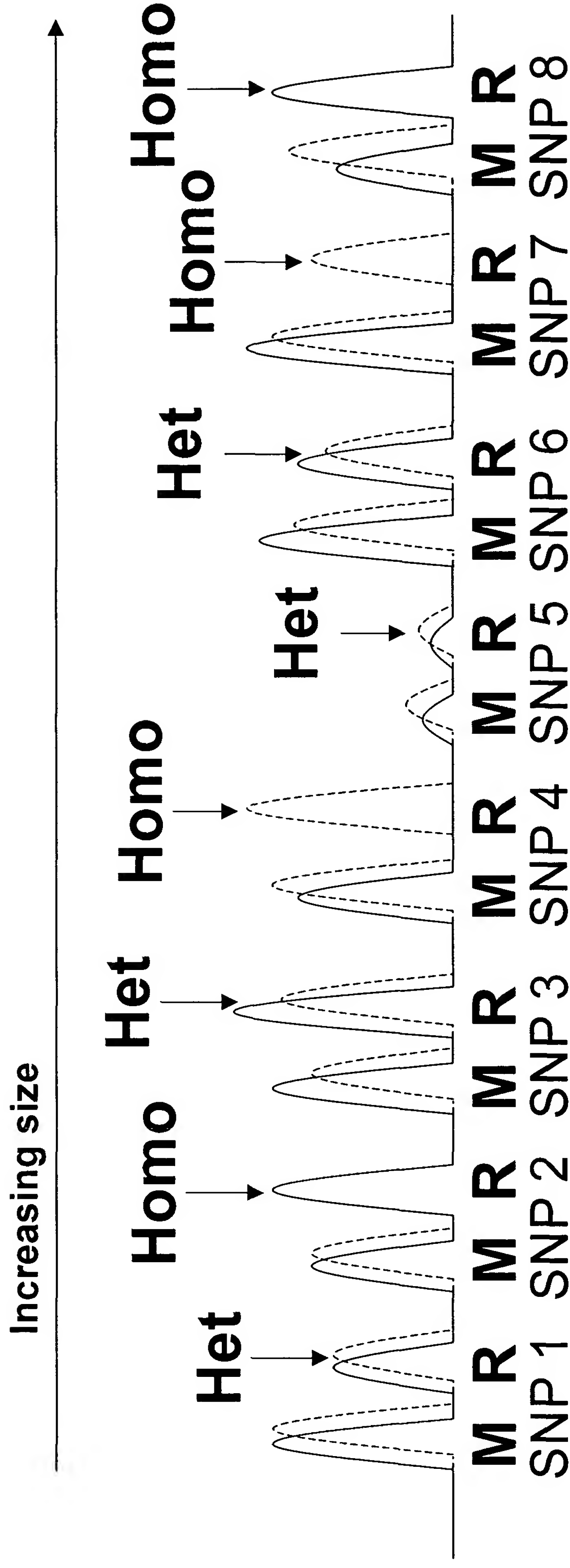


Figure 8

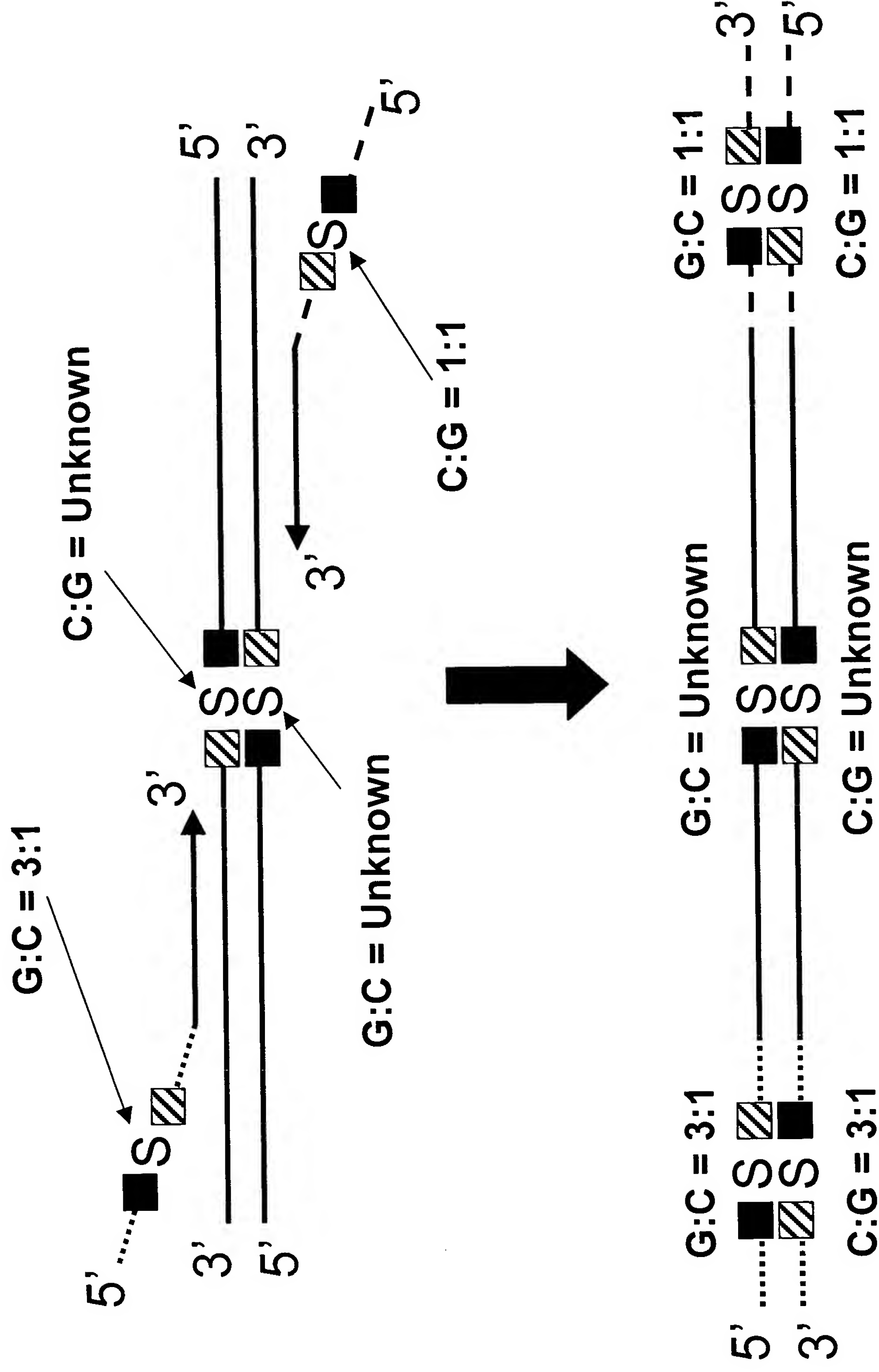


Figure 9

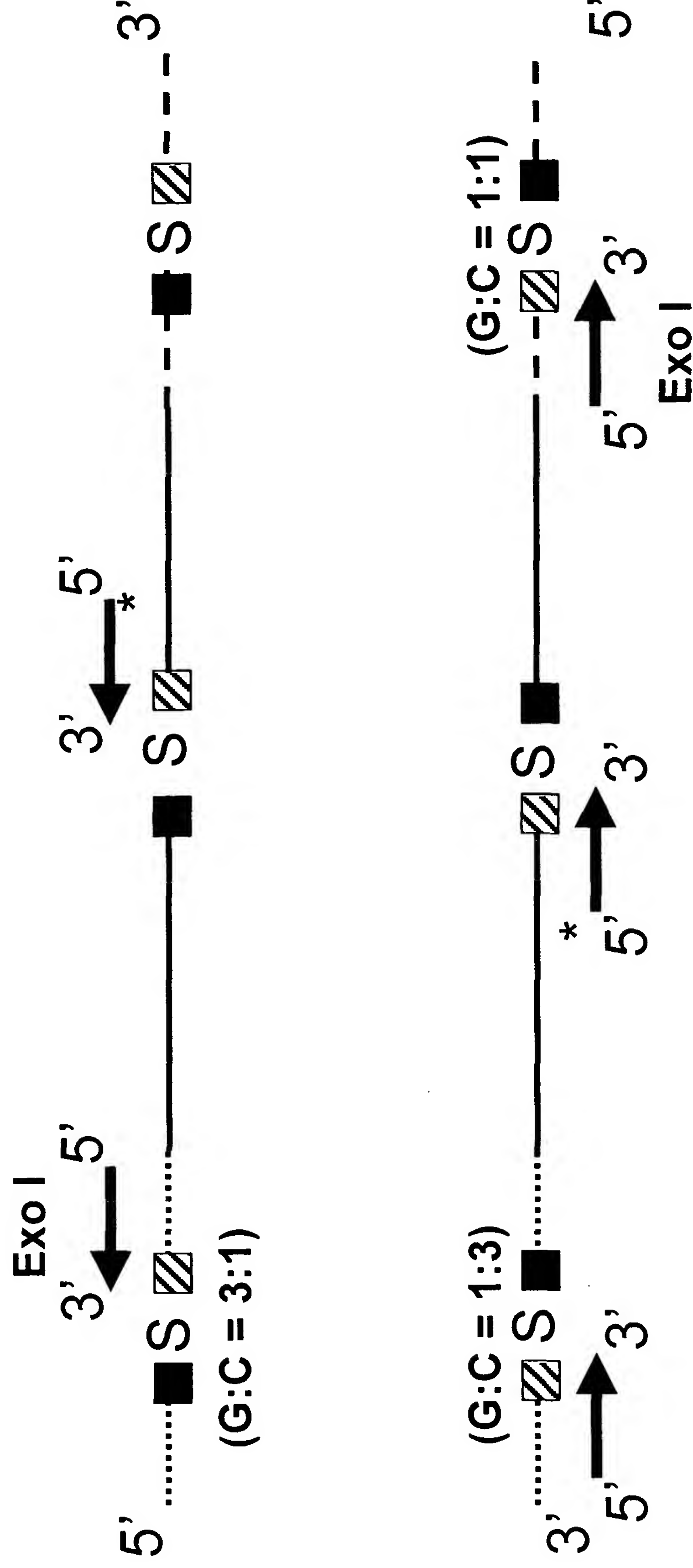


Figure 10

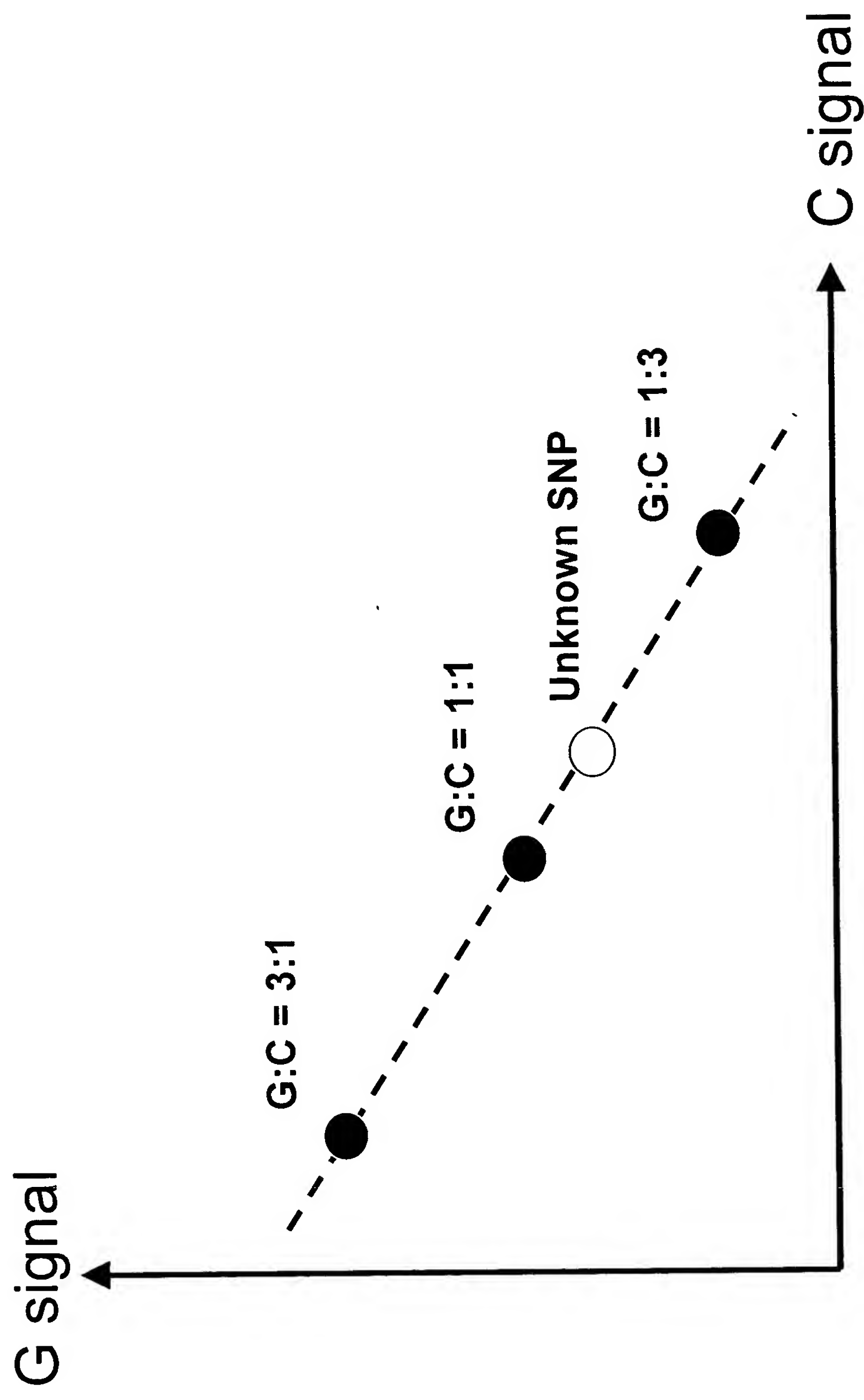


Figure 11

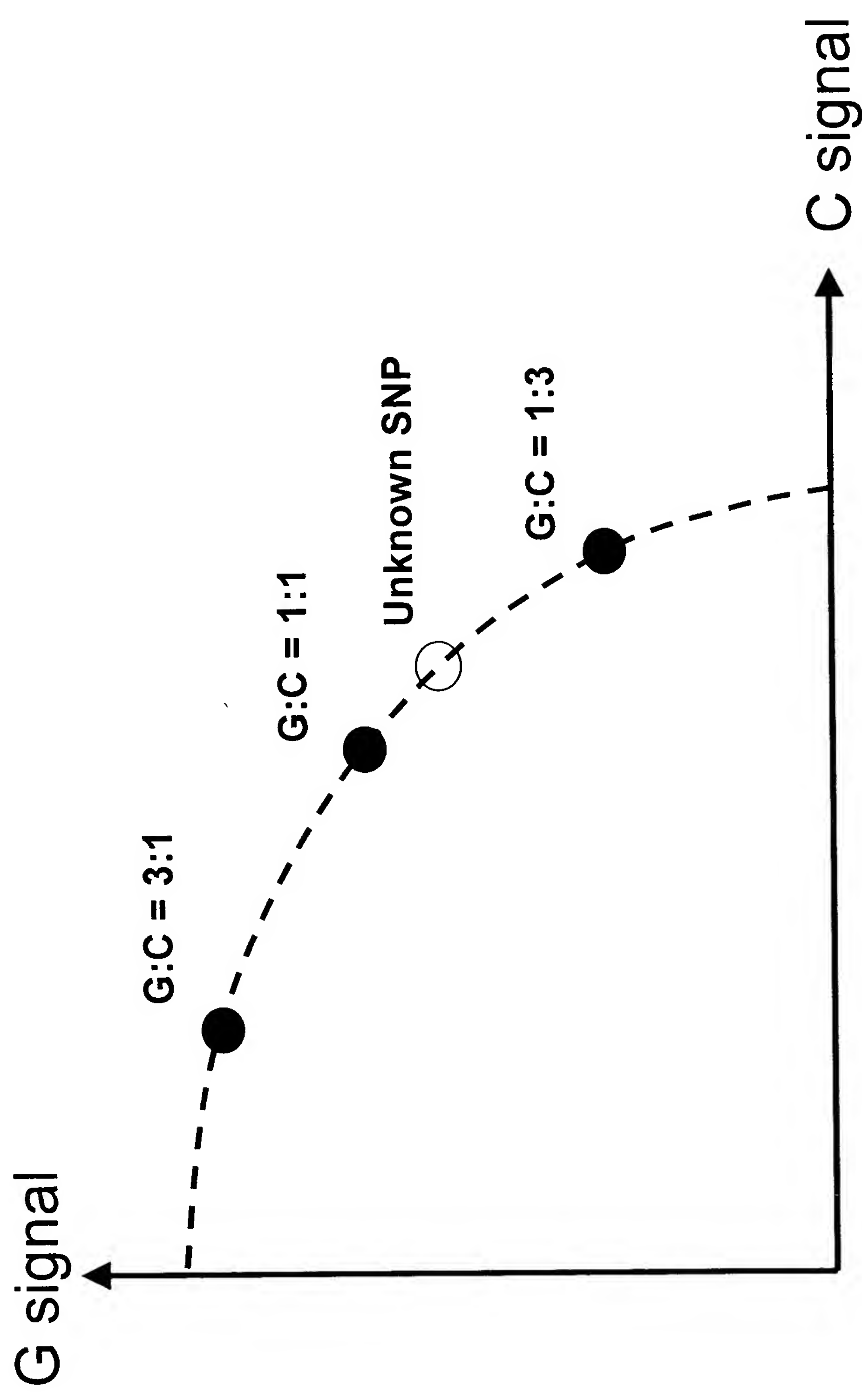


Figure 12

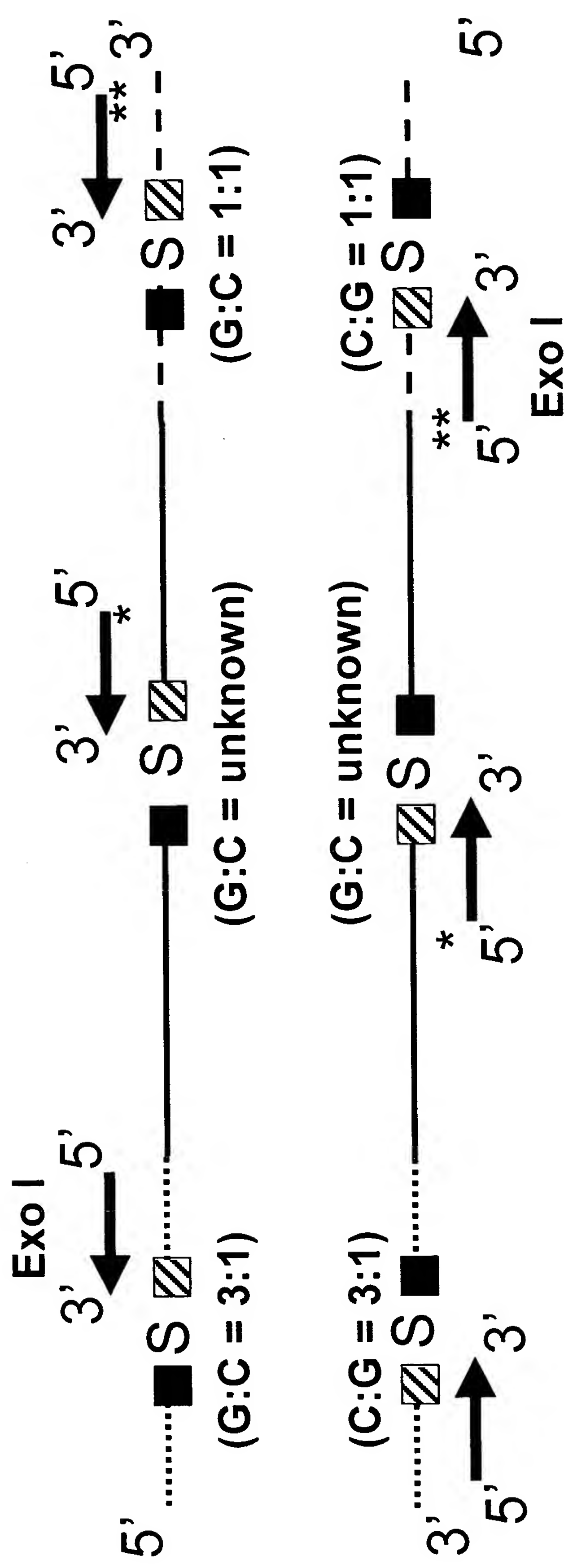


Figure 13

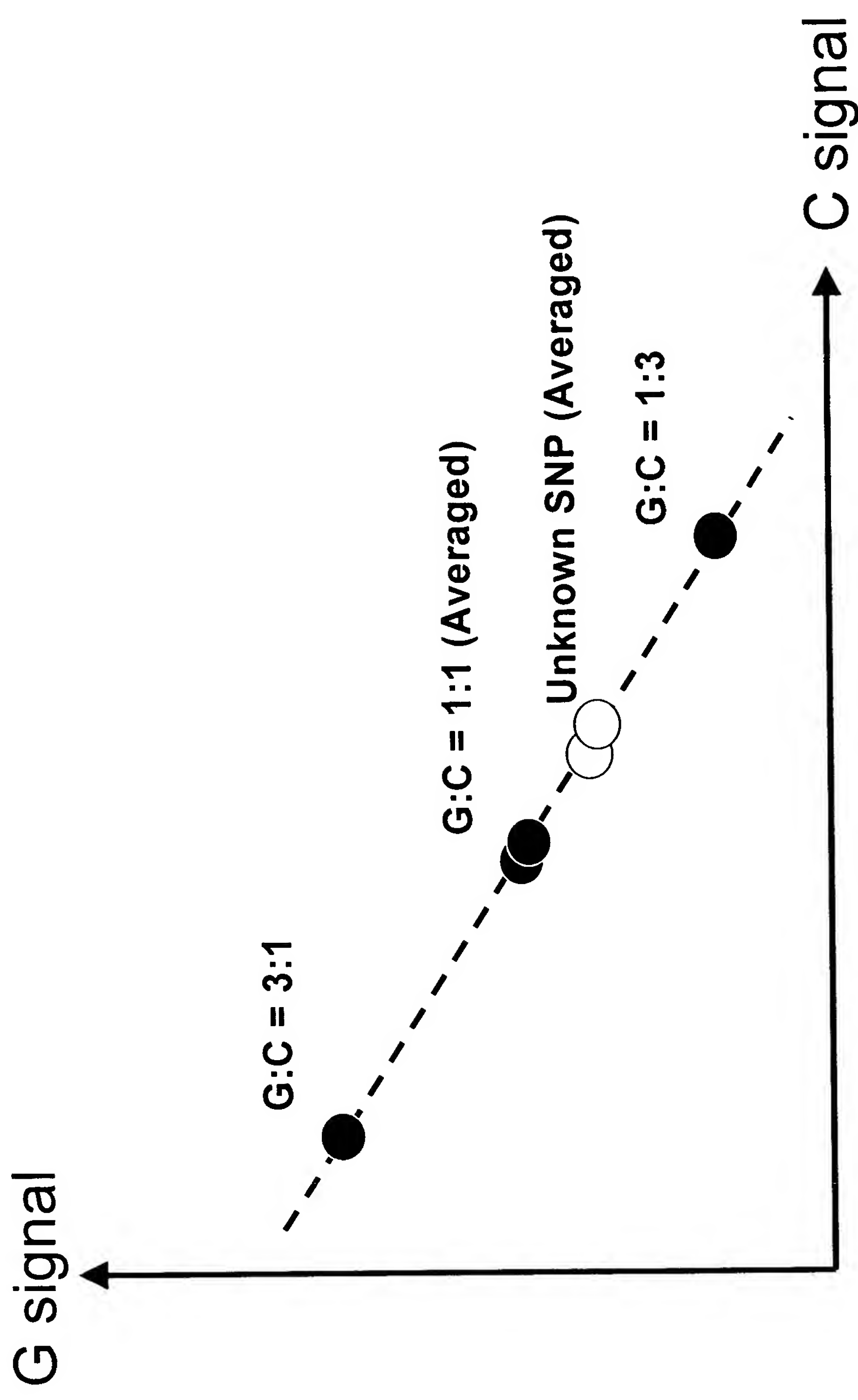


Figure 14

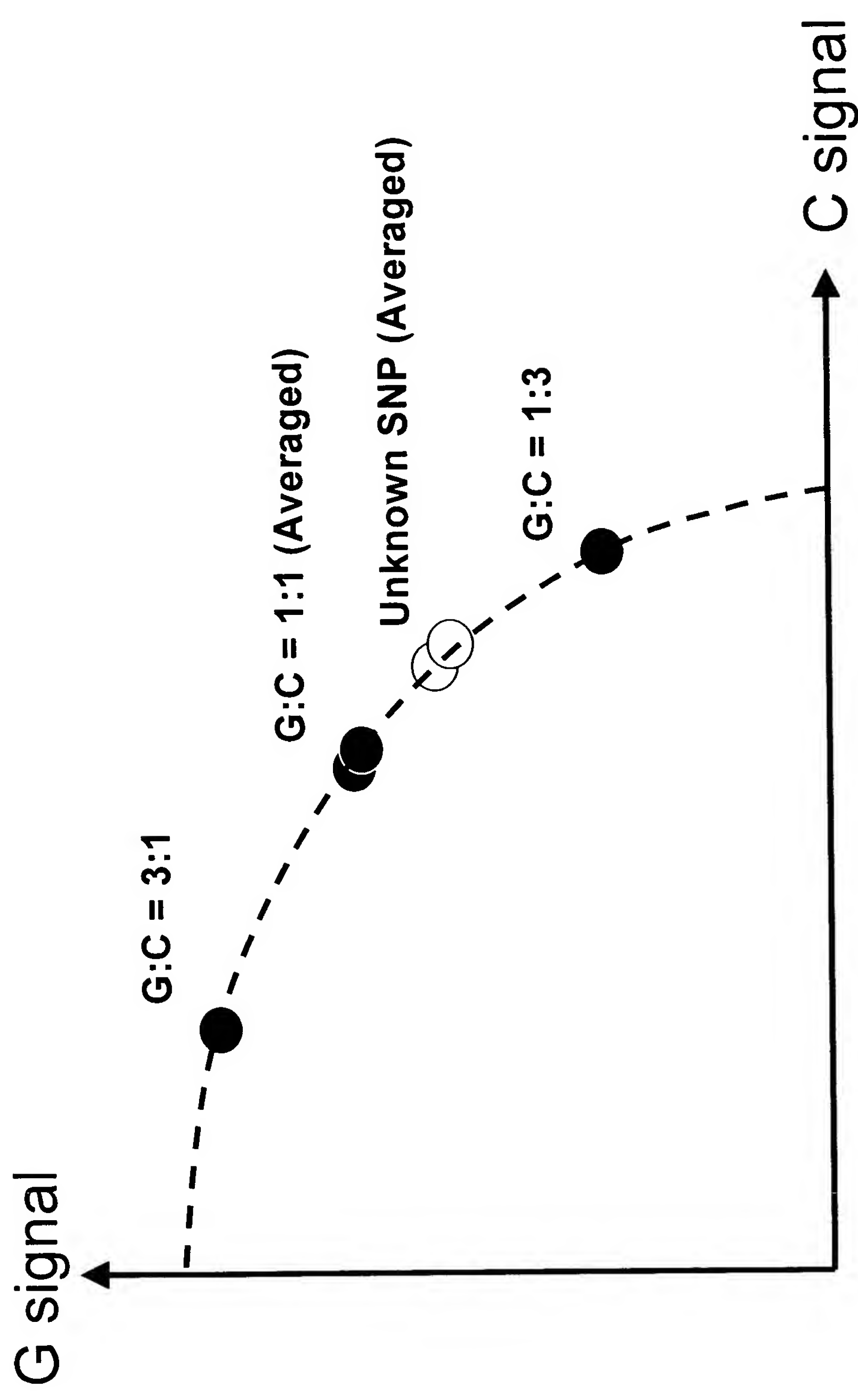


Figure 15

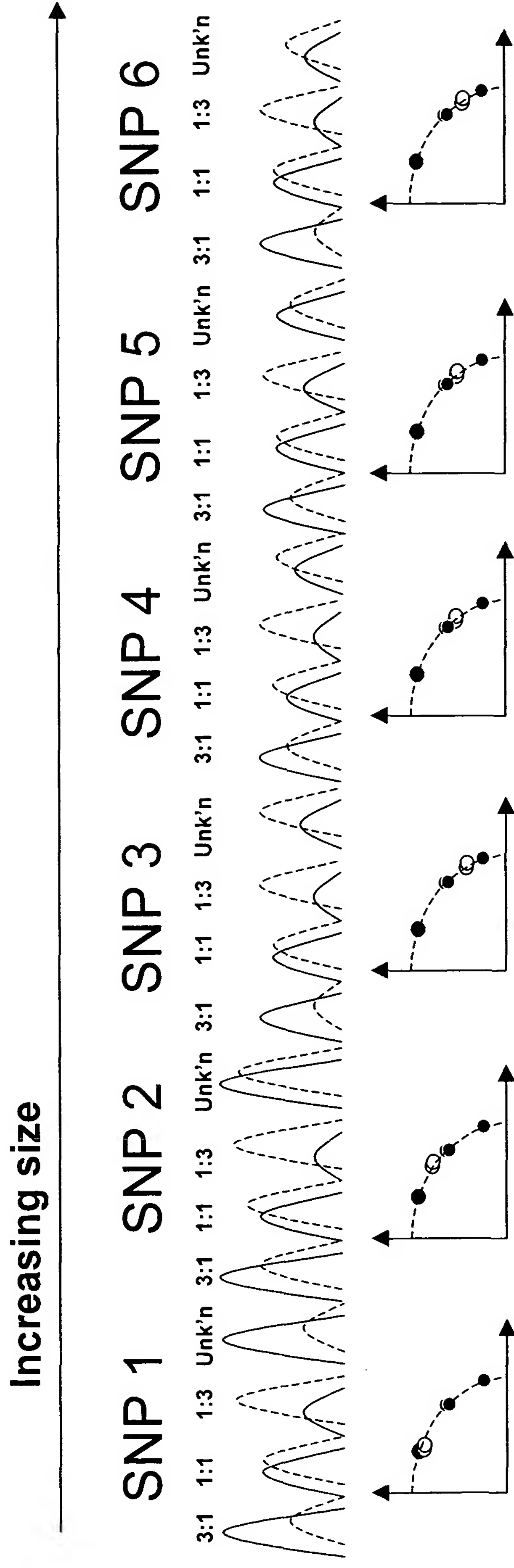


Figure 16

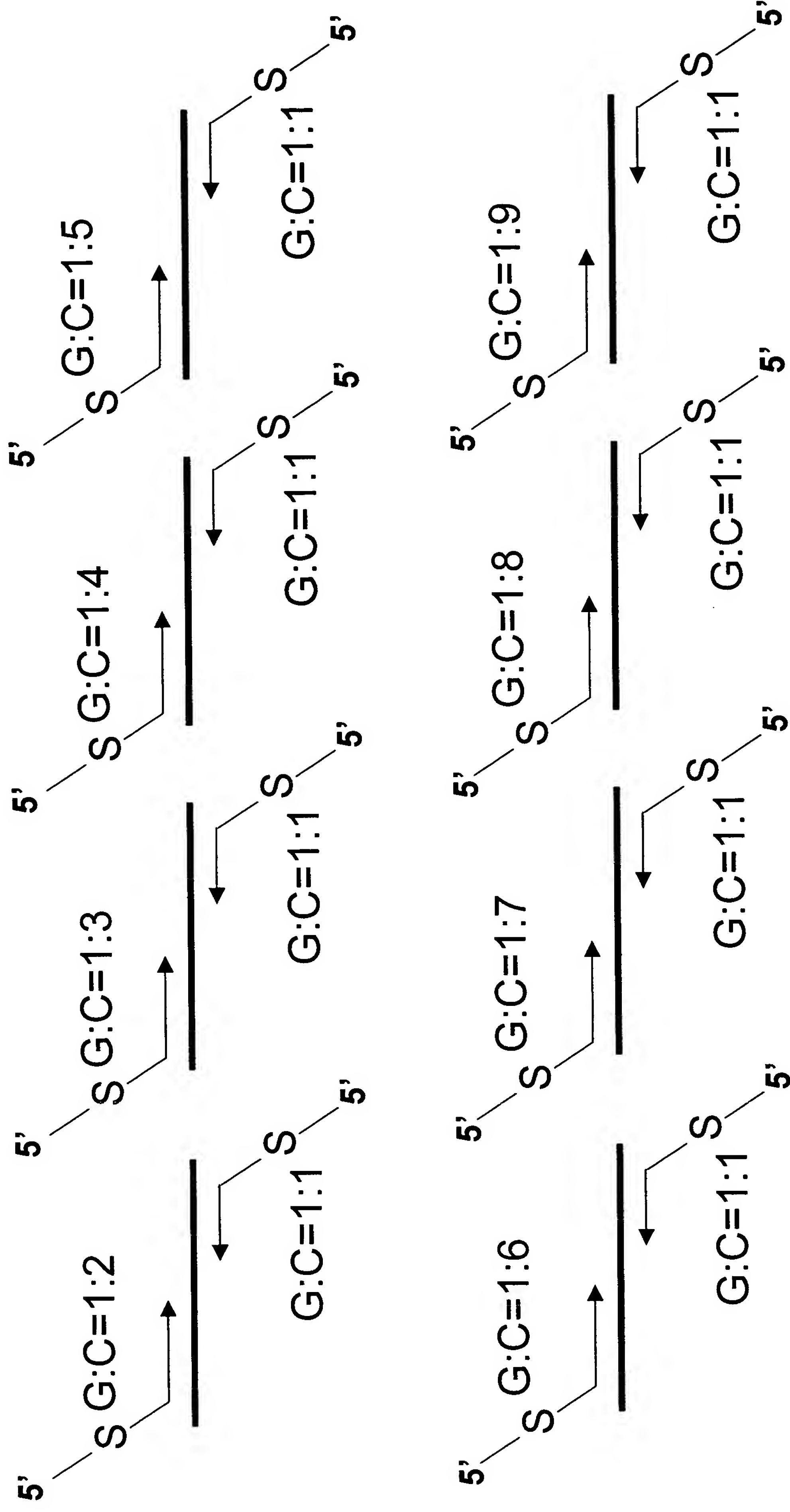
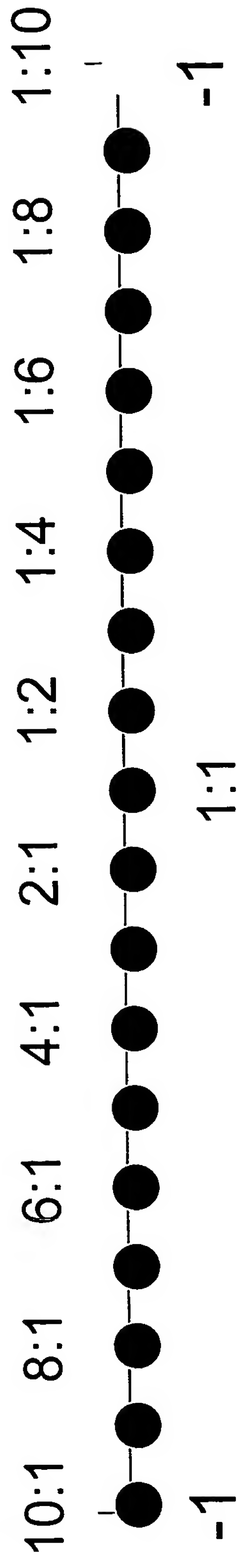


Figure 17

Linear relationship



Logarithmic relationship

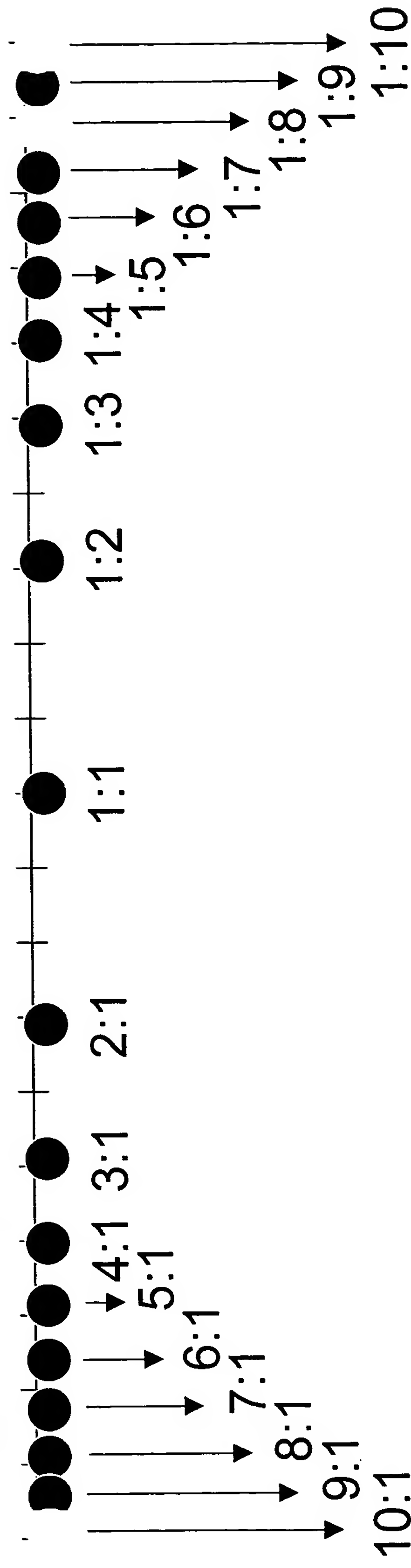


Figure 18

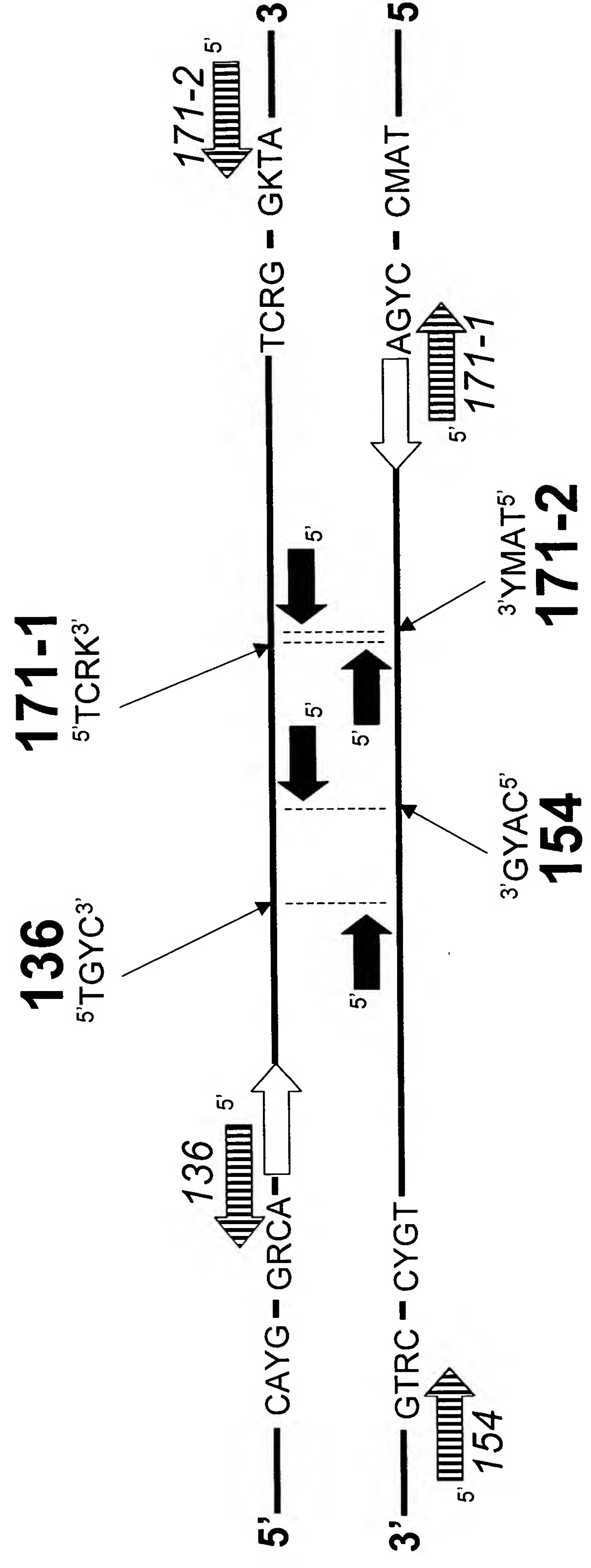


Figure 19

Increasing size

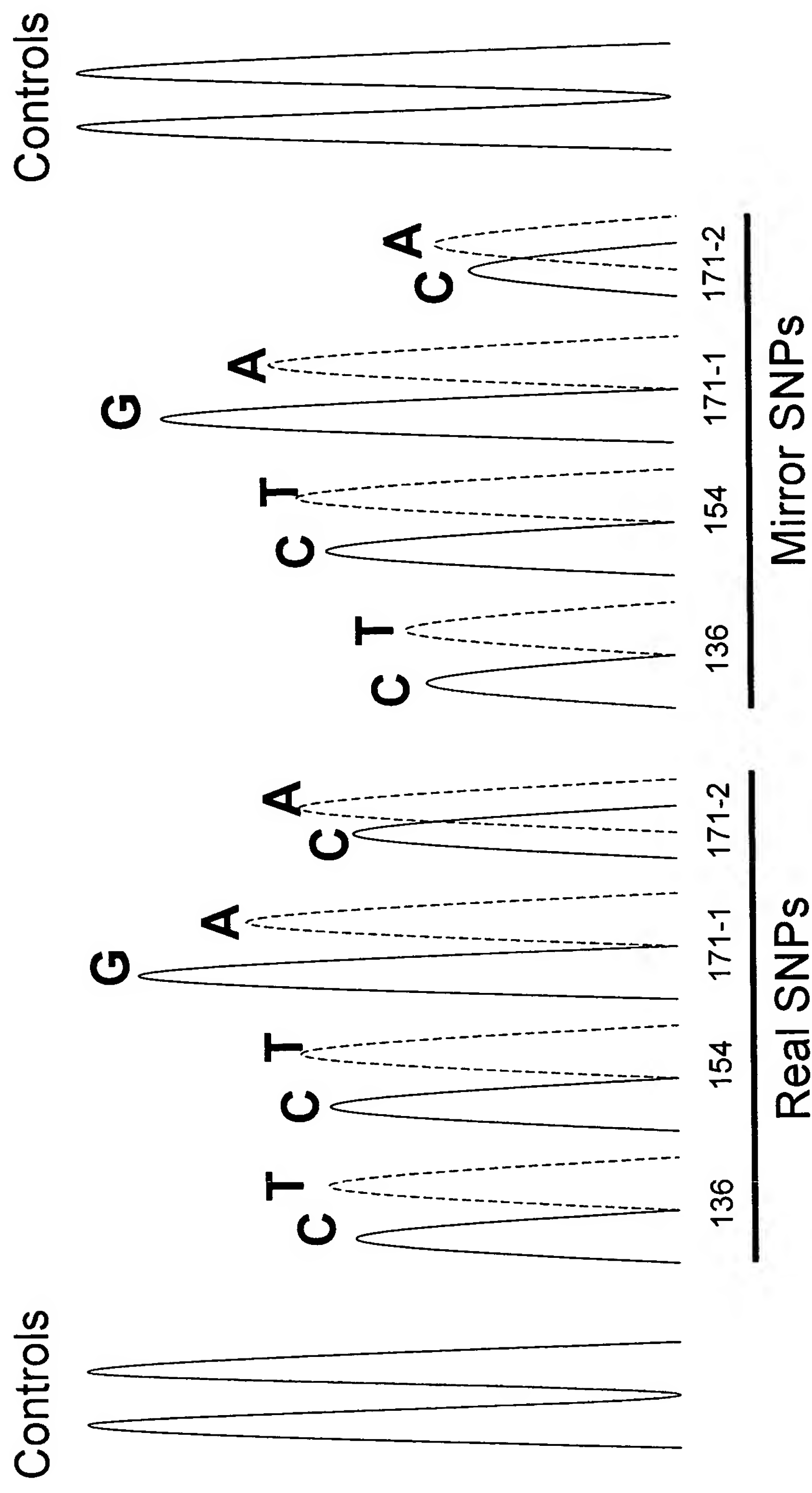


Figure 20

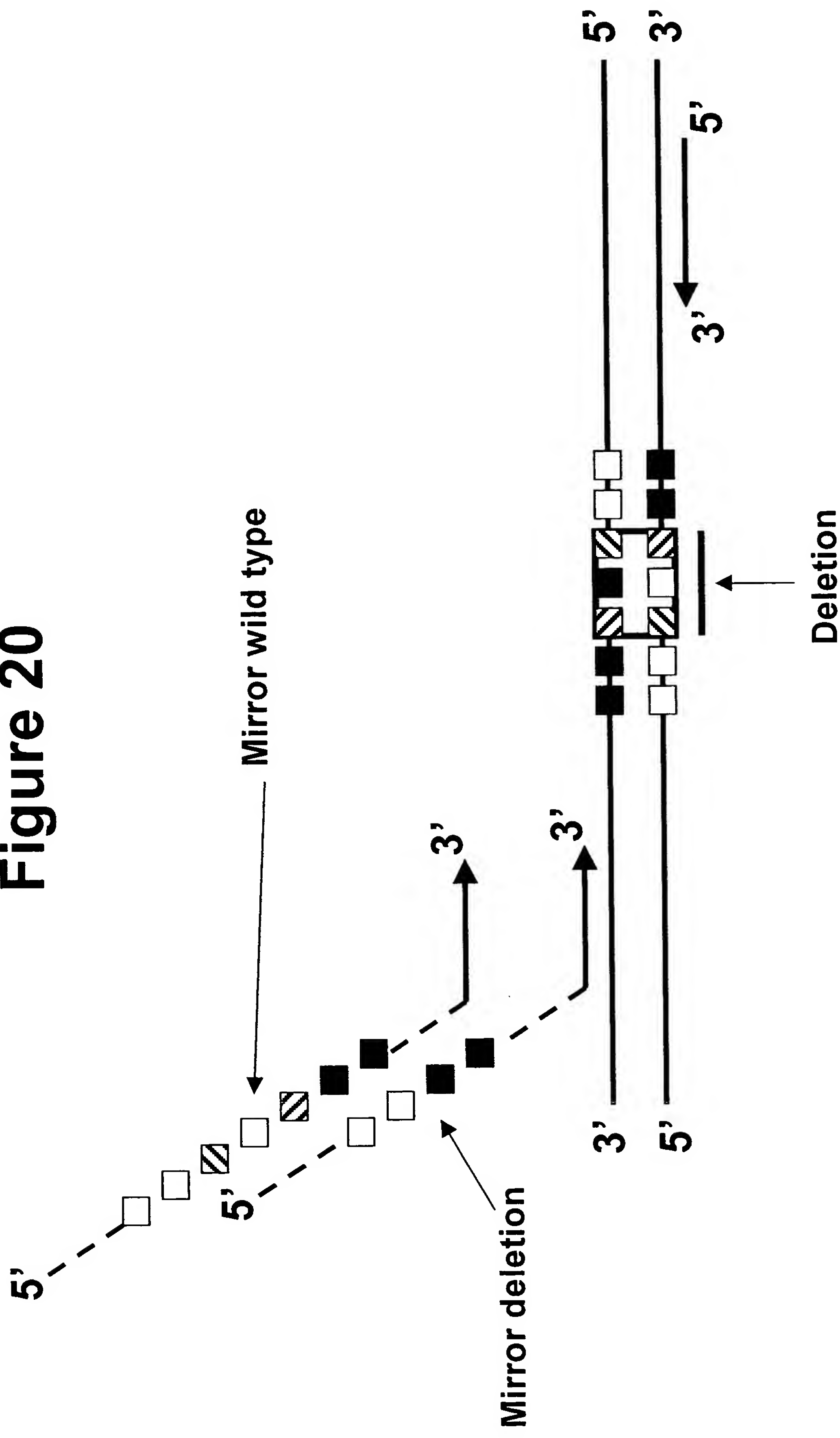


Figure 21

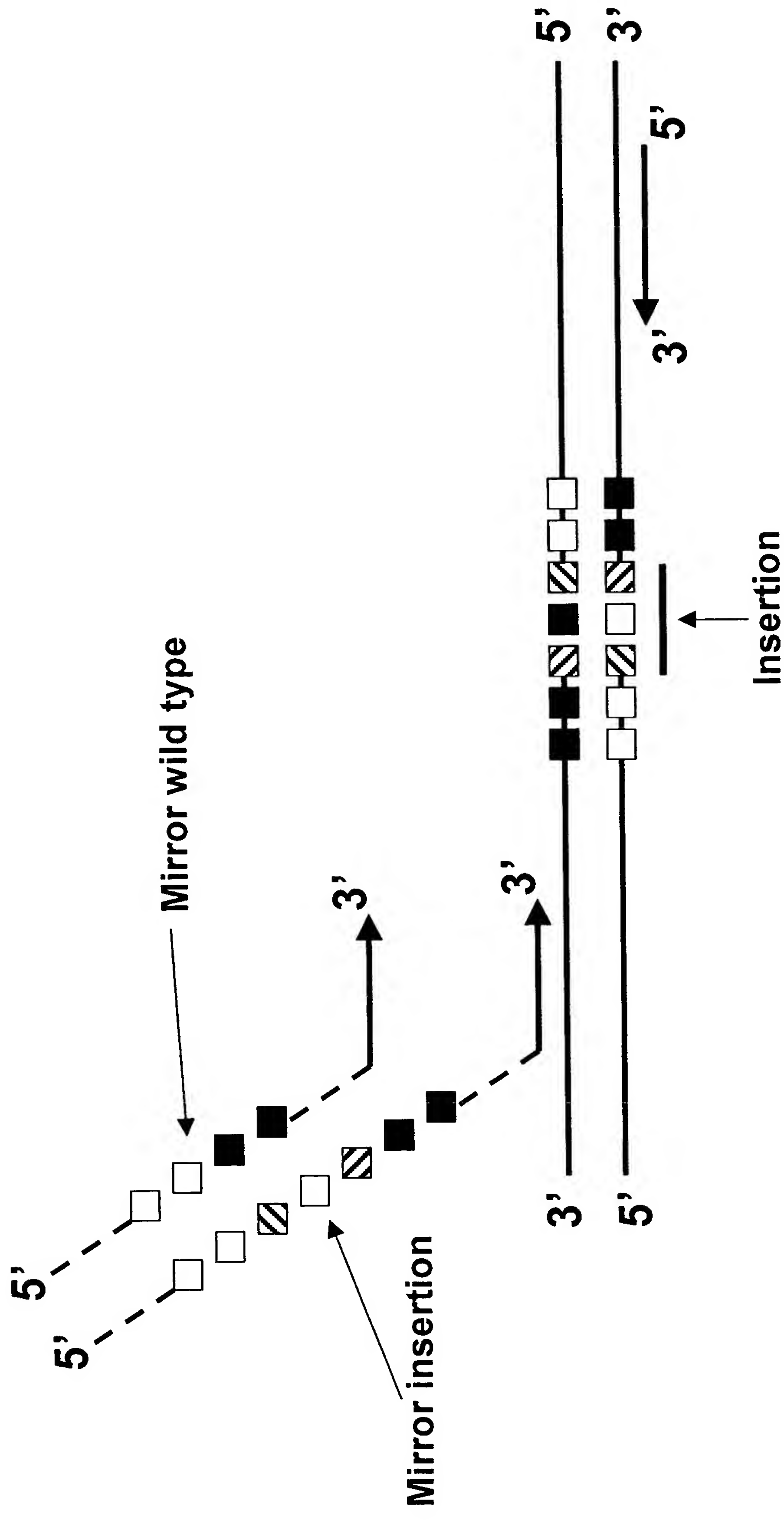


Figure 22

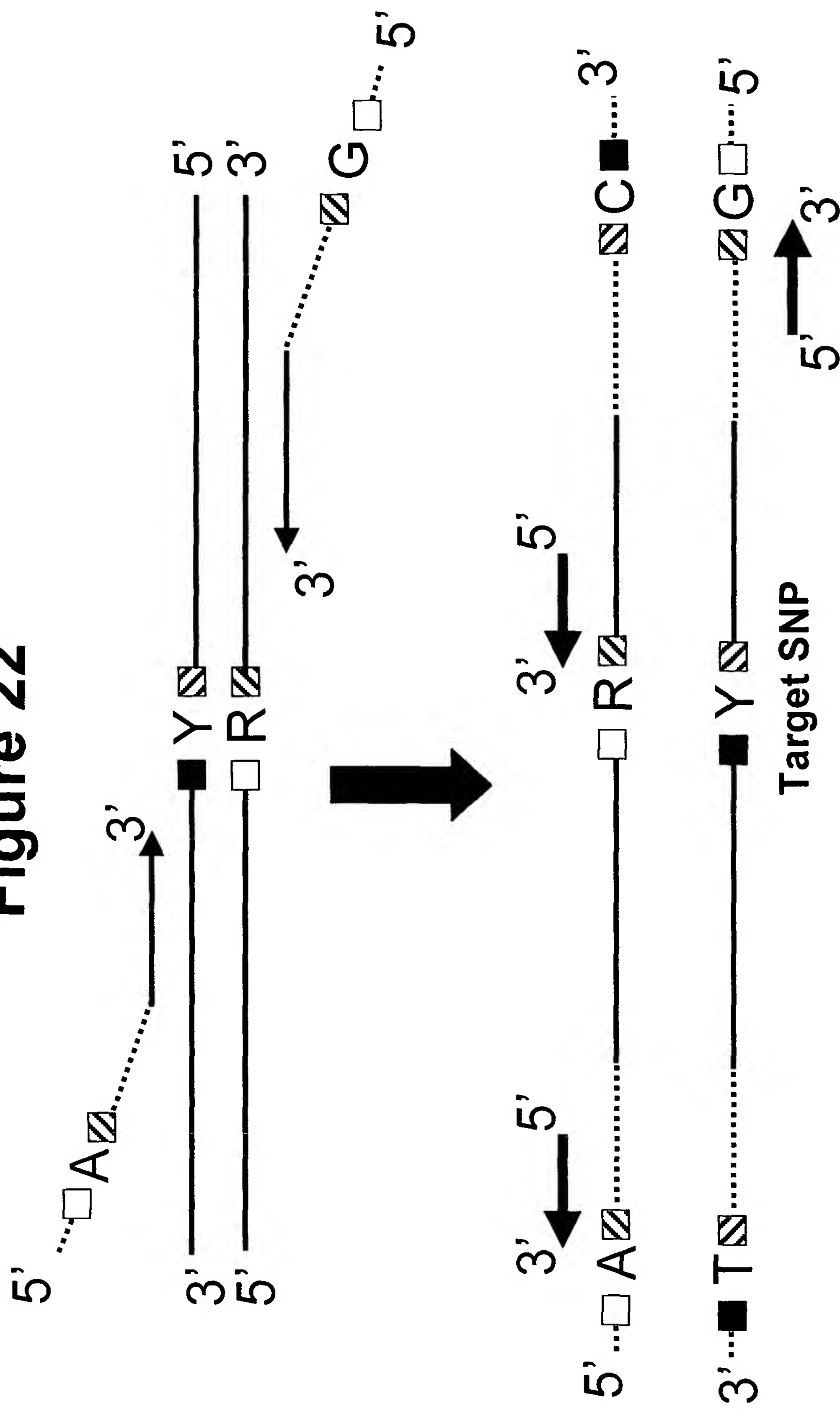


Figure 23

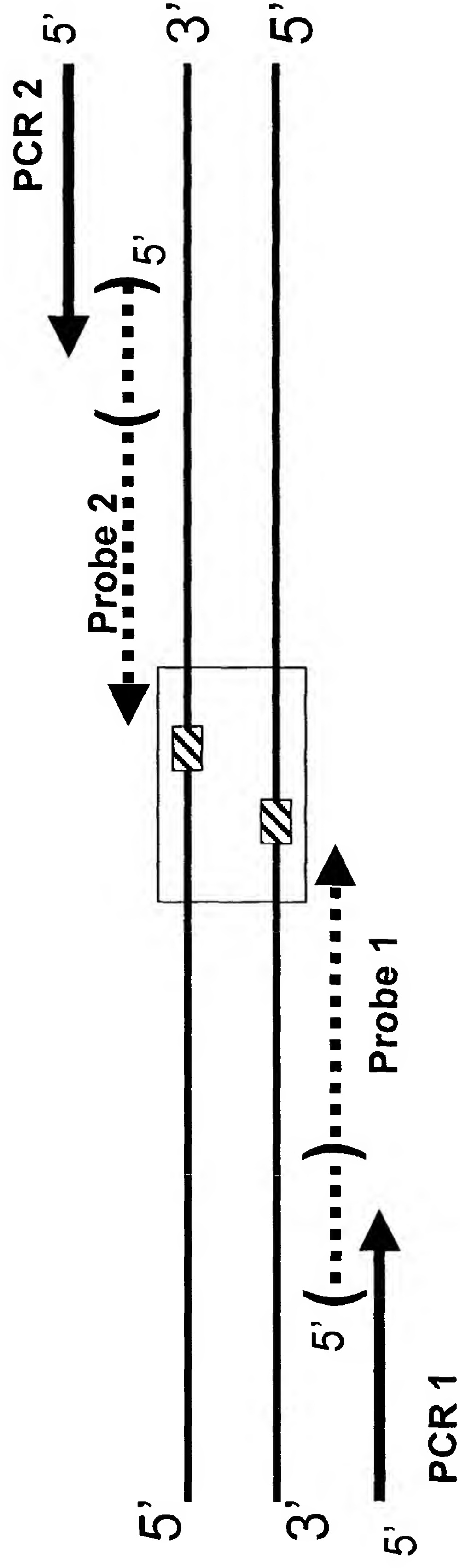


Figure 24

5' CATCCCTGTAGCGATCACAAACCGATAGCA TTGGTCA TCTGTGAGTCAGCTG ACCAGGAGCT TTGGGCGTAGTCACTCCAAACGCAGAGTTGAGTCACCGTCC 3'
3' GTAGGGACATCGCTAGTGTGGCTATCGTAACCACTAGACACTCAGTCGAGT CGTCTCGAAACCCGCATCAGTGAGGT TGCGTCTCAACTCAGTGGCAGG 5'
5' AACC GATAGCATTTGGTCA TCTGTGAGTCA 5'
5' CATCCCTGTAGCGATCACAAACCGATAGCAT TGAGGTTGCCGTCTCAACTCAGTGGCAGG 5'

Figure 25

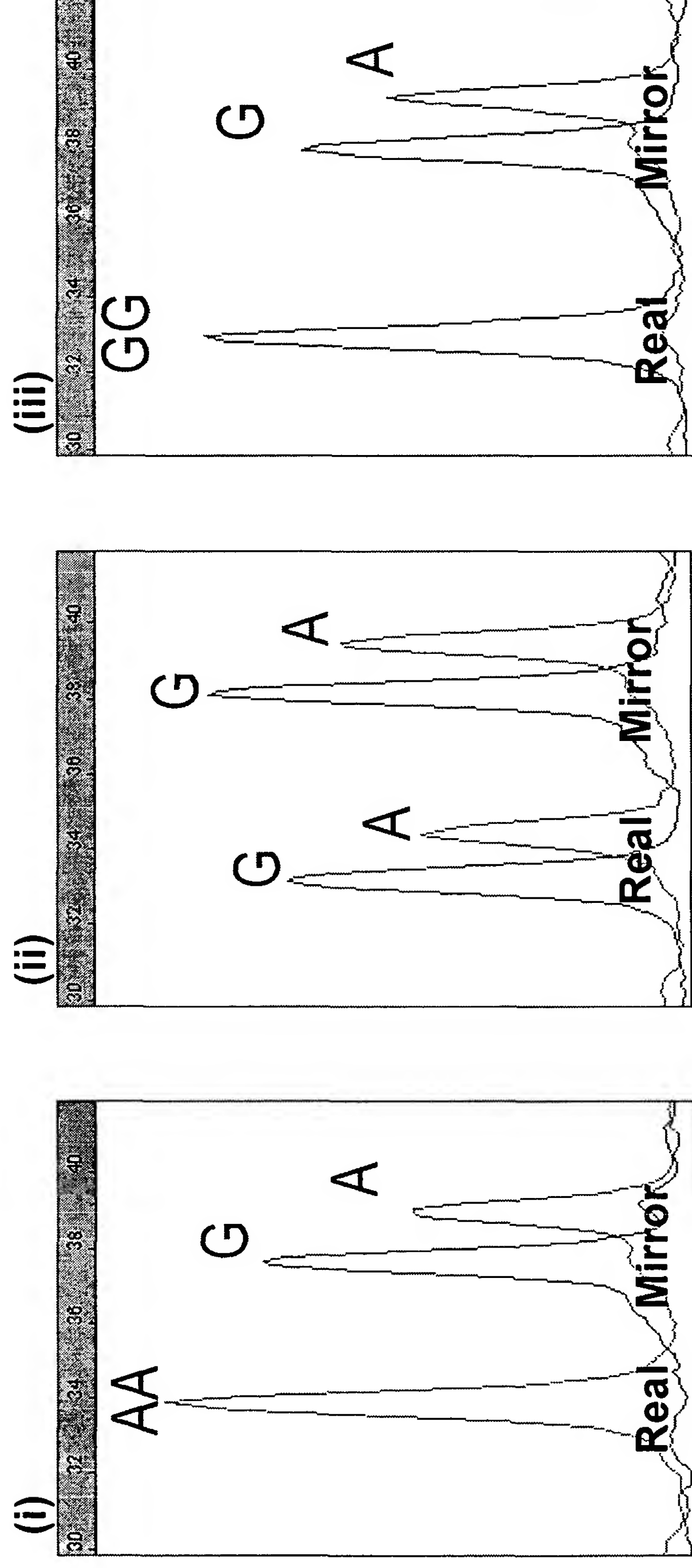


Figure 26

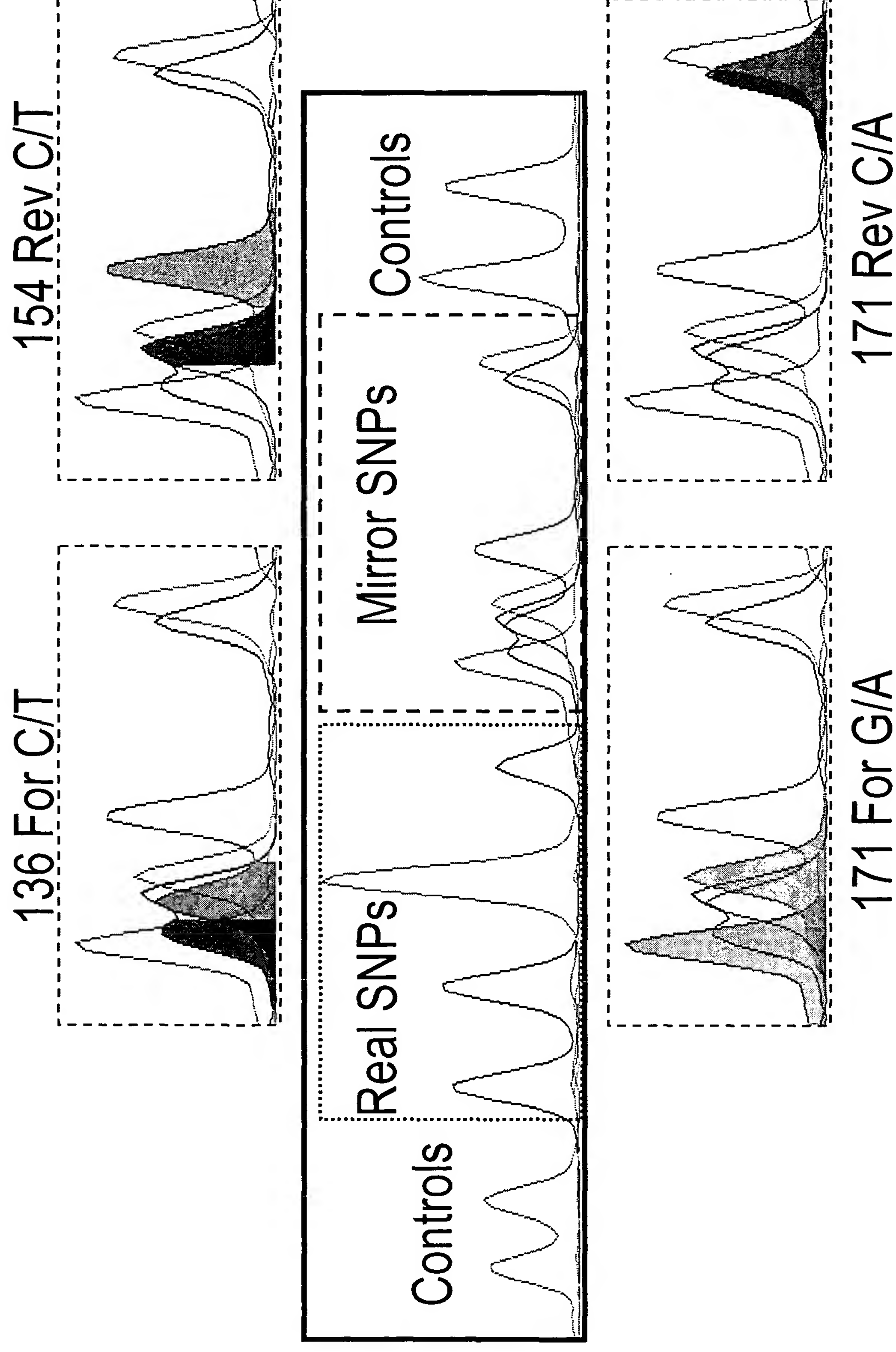
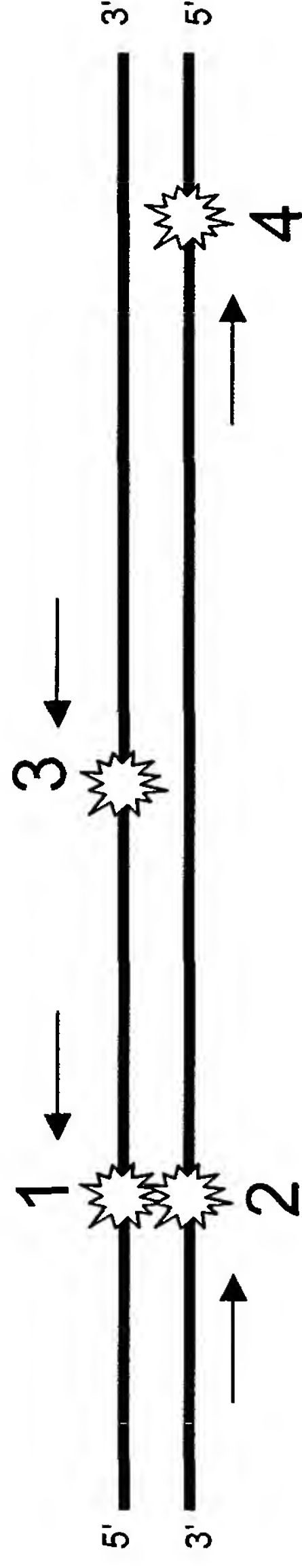


Figure 27



1

2

3

4

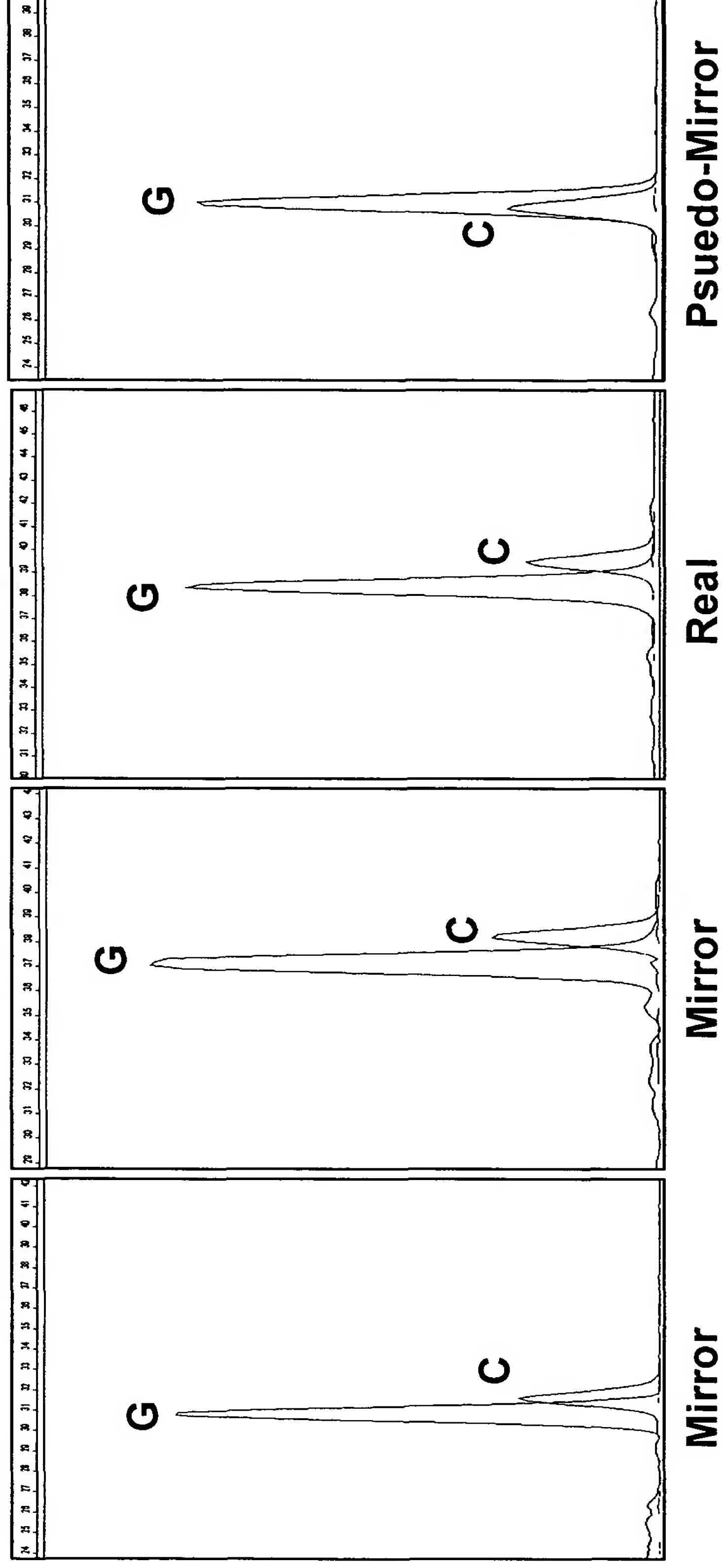


Figure 28

```
gtagccacag tcagtggaac aagcccagta agccaaaac caacatgaag catgtggcag
gagctgctgc agctggagca gtggtagggg gccttggtgg ctacatgctg ggaagtgYca
tgagcaggcc tcttatacat ttgggcaatg actatgagga ccgttactat cRtgaaaaca
tgtaccgtta cccaaccaa gtgtactaca gaccagtgga tCRKtatagt aaccagaaca
actttgtgca tgactgtgtc aacatcacag tcaagcaaca cacagtcacc accaccacca
agg
```

(SEQ. ID NO. 43)

Figure 29

gtcagcccca tggtaggtggc tggggacagc cacatggtgg tggaggctgg ggt**caaggtg**

gtagccacag tcagtggaac aagcccagta agccaaaaac caacatgaag catgtggcag
(t, ttt)

gagctgctgc agctggagca gtggtagggg gccttggtgg ctacatgctg ggaagtgcc (A)
t (V)

tgagcaggcc tcttatacat tttggcaatg actatgagga ccgttactat cgtgaaaaca (R)
(ttttt, tttttt) a (H)

tgtagcgtta ccc**caacc**aa gtgtactaca gaccagtgga tcggtatagt aaccagaaca (R)
ag (Q)
at (H)

actttgtgca tgactgtgtc aacatcacag tcaag**caaca cacagtcacc accaccacca**

agggggagaa cttcaccgaa actgacatca agataatgga gcgagtgggtg gagcaaatgt
(SEQ. ID NO. 44)